

Notice of Allowability

Application No.

10/028,881

Examiner

Christopher A. Daley

Applicant(s)

MACKEY, RICHARD P.

Art Unit

2111

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/19/2005.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

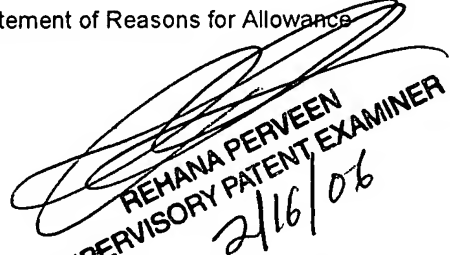
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


REHANA PERVEEN
SUPERVISORY PATENT EXAMINER
2/16/06

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney of record, Molly McCall on February 14, 2006. The limitations reflected in the prior claims that were struck from the amended claims were re-inserted.

Claim 1 now reads;

A system comprising:

A bridge coupled between a first data bus and a second data bus;

A target device coupled to the first data bus at a data bus address;

A decoder to provide bus segment information to the bridge independently of response to a bus transaction on the second data bus initiated by a source device;

wherein the source device to transmit an encoded signal via a connection to the decoder, wherein the connection is associated with a bus segment coupled to the target device and wherein the connection is independent of the first data bus where the target device is coupled, wherein the encoded signal to identify a bus segment being selected to received a bus transaction, and wherein the decoder generates the bus segment information of the associated bus segment in response to an assertion of the connection, and based on the encoded signal, and

wherein the bridge comprises logic to forward the bus transaction on the first data bus to the target device based upon the bus segment information.

Claim 7 now reads:

A method comprising:

Initiating a bus transaction to a target device coupled to a first data bus at a data bus address from a source device coupled to a second data bus, the first and second data busses being coupled to a bridge;

generating bus segment information of a bus segment coupled to the target device in response to an assertion of a connection associated with the bus segment coupled to the target device, wherein the connection is independent of the first data bus where the target device is coupled, wherein the bus segment information to be generated from an encoded signal transmitted via a connection from the source device to a decoder, wherein the encoded signal to identify a bus segment being selected to receive the bus transaction, and wherein the decoder generates the bus segment information based on the encoded signal; and

providing the bus segment information to the bridge in response to the bus transaction independently of the second bus.

Claim 13 now reads:

An apparatus comprising:

Means for initiating a bus transaction to a target device coupled to a first data bus at a data bus address from a source device coupled to a second data bus, the first and second data busses being coupled to a bridge;

means for generating bus segment information of a bus segment coupled to the target device in response to an assertion of a connection associated with the bus segment coupled to the target device, wherein the connection is independent of the first data bus where the target device is coupled, wherein the bus segment information to be generated from an encoded signal transmitted via a connection from the source device to a decoder, wherein the encoded signal to identify a bus segment being selected to receive the bus transaction, and wherein the decoder generates the bus segment information based on the encoded signal; and

means for providing the bus segment information to the bridge in response to the bus transaction independently of the second bus; and

means for forwarding the bus transaction to the target device on the first data bus based upon the bus segment information.

Allowable Subject Matter

2. The following is a statement of reasons for the indication of allowable subject matter:

Independent claim 1 is allowable over the prior art of record because the examiner found neither prior art cited in its entirety, nor based on the prior art found any motivation to combine any of said prior art. The following limitation was not found in the prior art of record:

A decoder to provide bus segment information to the bridge independently of response to a bus transaction on the second data bus initiated by a source device;

Wherein the source device to transmit an encoded signal via a connection to the decoder, wherein the connection is associated with a bus segment coupled to the target device and wherein the connection is independent of the first data bus where the target device is coupled, wherein the encoded signal to identify a bus segment being selected to received a bus transaction, and wherein the decoder generates the bus segment information of the associated bus segment in response to an assertion of the connection, based on the encoded signal, and wherein the bridge comprises logic to forward the bus transaction on the first data bus to the target device based upon the bus segment information.

Dependent claims 2 – 6 are rendered allowable, as associated independent claim 1 is allowable.

Independent claim 7 is allowable over the prior art of record because the examiner found neither prior art cited in its entirety, nor based on the prior art found any motivation to combine any of said prior art. The following limitation was not found in the prior art of record:

Generating bus segment information of a bus segment coupled to the target device in response to an assertion of a connection associated with the bus segment coupled to the target device, wherein the connection is independent of the first data bus where the target device is coupled, wherein the bus segment information to be generated from an encoded signal transmitted via a connection from the source device to a decoder, wherein the encoded signal to identify a bus segment being selected to receive the bus

transaction, and wherein the decoder generates the bus segment information based on the encoded signal; and

Providing the bus segment information to the bridge in response to the bus transaction independently of the second bus.

Dependent claims 8 - 12 are rendered allowable, as associated independent claim 7 is allowable.

Independent claim 13 is allowable over the prior art of record because the examiner found neither prior art cited in its entirety, nor based on the prior art found any motivation to combine any of said prior art. The following limitation was not found in the prior art of record:

Means for generating bus segment information of a bus segment coupled to the target device in response to an assertion of a connection associated with the bus segment coupled to the target device, wherein the connection is independent of the first data bus where the target device is coupled, wherein the bus segment information to be generated from an encoded signal transmitted via a connection from the source device to a decoder, wherein the encoded signal to identify a bus segment being selected to receive the bus transaction, and wherein the decoder generates the bus segment information based on the encoded signal; and

Means for providing the bus segment information to the bridge in response to the bus transaction independently of the second bus.

Dependent claims 14 - 18 are rendered allowable, as associated independent claim 13 is allowable.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

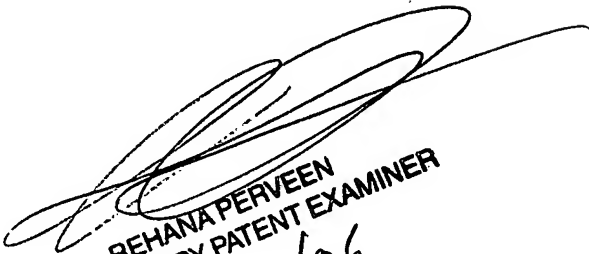
Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Daley whose telephone number is 571 272 3625. The examiner can normally be reached on 9 am. - 4p m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571 272 3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CAD
2/16/2006


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SUPERVISORY PATENT EXAMINER
2/16/06